

## SEQUENCE LISTING

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<120> YEAST CELLS ENGINEERED TO PRODUCE PHEROMONE SYSTEM  
PROTEIN SURROGATES, AND USES THEREFOR

<130> 60638CON(50370)

<140> 10/600,003  
<141> 2003-06-18

<150> 09/286,166  
<151> 1999-04-05

<150> 08/322,137  
<151> 1994-10-13

<150> 08/309,313  
<151> 1994-09-20

<150> 08/190,328  
<151> 1994-01-31

<150> 08/041,431  
<151> 1993-03-31

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<170> PatentIn version 3.5

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20 25 30

Ile Pro Ala Glu Ala Val Ile Gly Tyr Leu Asp Leu Glu Gly Asp Phe  
35 40 45

Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu  
50 55 60

Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val  
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20                       25                       30

Met Tyr Lys Arg Glu Ala Asp Ala Glu Ala Trp His Trp Leu Gln Leu  
35                       40                       45

Lys Pro Gly Gln Pro Met Tyr Lys Arg Glu Ala Asp Ala Glu Ala Trp  
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Cys Val Ile Ala  
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Xaa Xaa Cys Val Ile Ala
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<210> 14
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<210> 26
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<400> 26
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<210> 28
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<210> 34  
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Ala Glu Ala Trp His Trp Leu Gln Leu Lys Pro Gly Gln Pro Met Tyr  
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<400> 35  
ccgcgtctca catgccaaag aagaagccg 29

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<210> 41
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gtctgtgacg c                                71

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1           5           10

<210> 43
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1           5           10

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      1           5           10

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39

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39

<210> 51  
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1 5 10

33

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<220>  
<223> Description of Artificial Sequence: Synthetic  
construct

<400> 53  
Tyr Ala Leu Phe Val His Phe Phe Asp Ile Pro  
1 5 10

<210> 54  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>  
<221> CDS  
<222> (1)..(33)

<400> 54  
ttt aag ggt cag gtg cgt ttt gtg gtt ctt gct  
Phe Lys Gly Gln Val Arg Phe Val Val Leu Ala  
1 5 10

33

<210> 55  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
construct

<400> 55  
Phe Lys Gly Gln Val Arg Phe Val Val Leu Ala  
1 5 10

<210> 56  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>  
<221> CDS  
<222> (1)...(33)

<400> 56  
ctt atg tct ccg tct ttt ttt ttg cct gcg  
Leu Met Ser Pro Ser Phe Phe Phe Leu Pro Ala  
1 5 10

33

<210> 57  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
construct

<400> 57  
Leu Met Ser Pro Ser Phe Phe Phe Leu Pro Ala  
1 5 10

<210> 58  
<211> 27  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 58  
cgggatccga tgcaatttc aacatgc

27

<210> 59  
<211> 23  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 59  
gctcttagatg ctactgatcc cgc

23

<210> 60  
<211> 18  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 60	
cgccgcatga ctccattg	18
<210> 61	
<211> 26	
<212> DNA	
<213> <i>Saccharomyces cerevisiae</i>	
<400> 61	
gggttaccaa tagttcttt cttagg	26
<210> 62	
<211> 35	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Synthetic	
oligonucleotide	
<400> 62	
gttggggagg tgctctctag aaggaagtgt tcacc	35
<210> 63	
<211> 41	
<212> DNA	
<213> Artificial Sequence	
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<223> Description of Artificial Sequence: Synthetic	
oligonucleotide	
<400> 63	
ccccaggaga ccagaccatg gactccttca attataccac c	41
<210> 64	
<211> 42	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Synthetic	
oligonucleotide	
<400> 64	
cccccttaaagc gtgaggcaga agctactctg caaaagaaga tc	42
<210> 65	
<211> 29	
<212> DNA	
<213> Artificial Sequence	

<220>		
<223> Description of Artificial Sequence: Synthetic oligonucleotide		
 <400> 65		
gaagatcttc agcgccgag ttgcatttc		29
 <210> 66		
<211> 38		
<212> DNA		
<213> Artificial Sequence		
 <220>		
<223> Description of Artificial Sequence: Synthetic oligonucleotide		
 <400> 66		
gatataattaa ggttagaaac catgggtgt acagttag		38
 <210> 67		
<211> 34		
<212> DNA		
<213> <i>Saccharomyces cerevisiae</i>		
 <400> 67		
cgagcgctcg aggaaacgta taattaaagt agtg		34
 <210> 68		
<211> 34		
<212> DNA		
<213> <i>Saccharomyces cerevisiae</i>		
 <400> 68		
gcgcggtaacc aagttcaat tcgagataat accc		34
 <210> 69		
<211> 24		
<212> DNA		
<213> Artificial Sequence		
 <220>		
<223> Description of Artificial Sequence: Synthetic oligonucleotide		
 <400> 69		
cccgaaatcca ccaatttctt tacg		24
 <210> 70		
<211> 27		
<212> DNA		
<213> Artificial Sequence		

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 70  
 gcgccgtcga cgcggccgca taacagt

27

<210> 71  
 <211> 37  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 71  
 ctgctggagc tccgcctgct gctgctgggt gctggag

37

<210> 72  
 <211> 43  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 72  
 ctgctggtgc acgcggccgc gggggtttcct tcttagaaggc agc

43

<210> 73  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 73  
 gggctcgagc cttcttagag cagctcgat

30

<210> 74  
 <211> 37  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 74  
 ctgctggagc tcaagttgct gctgttggt gctgggg

37

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<210> 75
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide

<400> 75
ctgctggtcg acgcggccgc gcccctcaga agaggccgct gtcc          44

<210> 76
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide

<400> 76
gggctcgagc ctcagaagag gccgcagtc                           29

<210> 77
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide

<400> 77
ctgctggagc tcaagctgct gctactcggt gctggag                  37

<210> 78
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide

<400> 78
ctgctggtcg acgcggccgc cactaacatc catgcttctc aataaaagtc          49

<210> 79
<211> 31
<212> DNA
<213> Artificial Sequence

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<220>		
<223> Description of Artificial Sequence: Synthetic oligonucleotide		
<400> 79		31
gggctcgagc atgcttctca ataaaagtcca c		
<210> 80		
<211> 19		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Description of Artificial Sequence: Synthetic oligonucleotide		
<400> 80		19
gcatccatca ataatccag		
<210> 81		
<211> 23		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Description of Artificial Sequence: Synthetic oligonucleotide		
<400> 81		23
gaaacaatgg atccacttct tac		
<210> 82		
<211> 66		
<212> PRT		
<213> Saccharomyces cerevisiae		
<400> 82		
Met Gly Cys Thr Val Ser Thr Gln Thr Ile Gly Asp Glu Ser Asp Pro		
1 5 10 15		
Phe Leu Gln Asn Lys Arg Ala Asn Asp Val Ile Glu Gln Ser Leu Gln		
20 25 30		
Leu Glu Lys Gln Arg Asp Lys Asn Glu Ile Lys Leu Leu Leu Gly		
35 40 45		
Ala Gly Glu Ser Gly Lys Ser Thr Val Leu Lys Gln Leu Lys Leu Leu		
50 55 60		

His Gln  
65

<210> 83  
<211> 65  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 83  
Met Gly Cys Leu Gly Thr Ser Lys Thr Glu Asp Gln Arg Asn Glu Glu  
1 5 10 15

Lys Ala Gln Arg Glu Ala Asn Lys Lys Ile Glu Lys Gln Leu Gln Lys  
20 25 30

Asp Lys Gln Val Tyr Arg Ala Thr His Arg Leu Leu Leu Gly Ala  
35 40 45

Gly Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Arg Ile Leu His  
50 55 60

Val  
65

<210> 84  
<211> 58  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 84  
Met Gly Cys Thr Val Ser Ala Glu Asp Lys Ala Ala Ala Glu Arg Ser  
1 5 10 15

Lys Met Ile Asp Lys Asn Leu Arg Glu Asp Gly Glu Lys Ala Ala Arg  
20 25 30

Glu Val Lys Leu Leu Leu Gly Ala Gly Glu Ser Gly Lys Ser Thr  
35 40 45

Ile Val Lys Gln Met Lys Ile Ile His Glu  
50 55

<210> 85  
<211> 58  
<212> PRT  
<213> *Saccharomyces cerevisiae*

&lt;400&gt; 85

Met Gly Cys Thr Val Ser Ala Glu Asp Lys Ala Ala Val Glu Arg Ser  
1 5 10 15

Lys Met Ile Asp Arg Asn Leu Arg Glu Asp Gly Glu Lys Ala Ala Lys  
20 25 30

Glu Val Lys Leu Leu Leu Gly Ala Gly Glu Ser Gly Lys Ser Thr  
35 40 45

Ile Val Lys Gln Met Lys Ile Ile His Glu  
50 55

&lt;210&gt; 86

&lt;211&gt; 67

&lt;212&gt; PRT

<213> *Saccharomyces cerevisiae*

&lt;400&gt; 86

Met Ala Arg Ser Leu Thr Trp Arg Cys Cys Pro Trp Cys Leu Thr Glu  
1 5 10 15

Asp Glu Lys Ala Ala Ala Arg Val Asp Gln Glu Ile Asn Arg Ile Leu  
20 25 30

Leu Glu Gln Lys Lys Gln Asp Arg Gly Glu Leu Lys Leu Leu Leu  
35 40 45

Gly Pro Gly Glu Ser Gly Lys Ser Thr Phe Ile Lys Gln Met Arg Ile  
50 55 60

Ile His Gly  
65

&lt;210&gt; 87

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
peptide

&lt;400&gt; 87

Met Gly Cys Thr Val Ser Thr Gln Thr Ile Gly Asp Glu Ser Asp Pro  
1 5 10 15

30

Phe Leu Gln Asn Lys Arg Ala Asn Asp Val Ile Glu Gln Ser Leu Gln  
20 25 30

Leu Glu Lys Gln Arg Asp Lys Asn Glu Arg Lys Leu Leu Leu Gly  
35 40 45

Ala Gly Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Arg Ile Leu  
50 55 60

His Val  
65

<210> 88  
<211> 66  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic peptide

<400> 88  
Met Gly Cys Thr Val Ser Thr Gln Thr Ile Gly Asp Glu Ser Asp Pro  
1 5 10 15

Phe Leu Gln Asn Lys Arg Ala Asn Asp Val Ile Glu Gln Ser Leu Gln  
20 25 30

Leu Glu Lys Gln Arg Asp Lys Asn Glu Val Lys Leu Leu Leu Gly  
35 40 45

Ala Gly Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Lys Ile Ile  
50 55 60

His Glu  
65

<210> 89  
<211> 66  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic peptide

<400> 89  
Met Gly Cys Thr Val Ser Thr Gln Thr Ile Gly Asp Glu Ser Asp Pro  
1 5 10 15

Phe Leu Gln Asn Lys Arg Ala Asn Asp Val Ile Glu Gln Ser Leu Gln  
 20 25 30

Leu Glu Lys Gln Arg Asp Lys Asn Glu Val Lys Leu Leu Leu Gly  
 35 40 45

Ala Gly Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Lys Ile Ile  
 50 55 60

His Glu  
 65

<210> 90  
<211> 66  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic peptide

<400> 90  
Met Gly Cys Thr Val Ser Thr Gln Thr Ile Gly Asp Glu Ser Asp Pro  
 1 5 10 15

Phe Leu Gln Asn Lys Arg Ala Asn Asp Val Ile Glu Gln Ser Leu Gln  
 20 25 30

Leu Glu Lys Gln Arg Asp Lys Asn Glu Leu Lys Leu Leu Leu Gly  
 35 40 45

Pro Gly Glu Ser Gly Lys Ser Thr Phe Ile Lys Gln Met Arg Ile Ile  
 50 55 60

His Gly  
 65

<210> 91  
<211> 39  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<220>  
<221> CDS  
<222> (1)..(39)

<400> 91		
tgg cat tgg ttg cag cta aaa cct ggc cag cct atg tac		
Trp His Trp Leu Gln Leu Lys Pro Gly Gln Pro Met Tyr		
1	5	10
39		
<210> 92		
<211> 13		
<212> PRT		
<213> <i>Saccharomyces cerevisiae</i>		
<400> 92		
Trp His Trp Leu Gln Leu Lys Pro Gly Gln Pro Met Tyr		
1	5	10
<210> 93		
<211> 39		
<212> DNA		
<213> <i>Saccharomyces cerevisiae</i>		
<220>		
<221> CDS		
<222> (1)..(39)		
<400> 93		
tgg cat tgg ttg tcc ttg tcg ccc ggg cag cct atg tac		
Trp His Trp Leu Ser Leu Ser Pro Gly Gln Pro Met Tyr		
1	5	10
39		
<210> 94		
<211> 13		
<212> PRT		
<213> <i>Saccharomyces cerevisiae</i>		
<400> 94		
Trp His Trp Leu Ser Leu Ser Pro Gly Gln Pro Met Tyr		
1	5	10
<210> 95		
<211> 39		
<212> DNA		
<213> <i>Saccharomyces cerevisiae</i>		
<220>		
<221> CDS		
<222> (1)..(39)		
<400> 95		
tgg cat tgg ttg tcc ctg gac gct ggc cag cct atg tac		
Trp His Trp Leu Ser Leu Asp Ala Gly Gln Pro Met Tyr		
1	5	10
39		

<210> 96  
<211> 13  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 96  
Trp His Trp Leu Ser Leu Asp Ala Gly Gln Pro Met Tyr  
1 5 10

<210> 97  
<211> 39  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<220>  
<221> CDS  
<222> (1) .. (39)

<400> 97  
tgg cat tgg ttg acc ttg atg gcc ggg cag cct atg tac  
Trp His Trp Leu Thr Leu Met Ala Gly Gln Pro Met Tyr  
1 5 10

39

<210> 98  
<211> 13  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 98  
Trp His Trp Leu Thr Leu Met Ala Gly Gln Pro Met Tyr  
1 5 10

<210> 99  
<211> 39  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<220>  
<221> CDS  
<222> (1) .. (39)

<400> 99  
tgg cat tgg ttg cag ctg tcg gcg ggc cag cct atg tac  
Trp His Trp Leu Gln Leu Ser Ala Gly Gln Pro Met Tyr  
1 5 10

39

<210> 100  
<211> 13  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 100  
Trp His Trp Leu Gln Leu Ser Ala Gly Gln Pro Met Tyr  
1 5 10

<210> 101  
<211> 39  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<220>  
<221> CDS  
<222> (1)..(39)

<400> 101  
tgg cat tgg ttg agg ttg cag tcc ggc cag cct atg tac  
Trp His Trp Leu Arg Leu Gln Ser Gly Gln Pro Met Tyr  
1 5 10

39

<210> 102  
<211> 13  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 102  
Trp His Trp Leu Arg Leu Gln Ser Gly Gln Pro Met Tyr  
1 5 10

<210> 103  
<211> 39  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<220>  
<221> CDS  
<222> (1)..(39)

<400> 103  
tgg cat tgg ttg cgc ttg tcc gcc ggg cag cct atg tac  
Trp His Trp Leu Arg Leu Ser Ala Gly Gln Pro Met Tyr  
1 5 10

39

<210> 104  
<211> 13  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 104  
Trp His Trp Leu Arg Leu Ser Ala Gly Gln Pro Met Tyr  
1 5 10

<210> 105  
<211> 39  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<220>  
<221> CDS  
<222> (1)...(39)

<400> 105  
tgg cat tgg ttg tcg ctc gtc ccg ggg cag cct atg tac  
Trp His Trp Leu Ser Leu Val Pro Gly Gln Pro Met Tyr  
1 5 10

39

<210> 106  
<211> 13  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 106  
Trp His Trp Leu Ser Leu Val Pro Gly Gln Pro Met Tyr  
1 5 10

<210> 107  
<211> 39  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<220>  
<221> CDS  
<222> (1)...(39)

<400> 107  
tgg cat tgg ttg tcc ctg tac ccc ggg cag cct atg tac  
Trp His Trp Leu Ser Leu Tyr Pro Gly Gln Pro Met Tyr  
1 5 10

39

<210> 108  
<211> 13  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 108  
Trp His Trp Leu Ser Leu Tyr Pro Gly Gln Pro Met Tyr  
1 5 10

<210> 109  
<211> 39  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<220>  
<221> CDS  
<222> (1)...(39)

<400> 109  
tgg cat tgg ttg cgg ctg cag ccc ggg cag cct atg tac  
Trp His Trp Leu Arg Leu Gln Pro Gly Gln Pro Met Tyr  
1 5 10

39

<210> 110  
<211> 13  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 110  
Trp His Trp Leu Arg Leu Gln Pro Gly Gln Pro Met Tyr  
1 5 10

<210> 111  
<211> 62  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 111  
Arg Ile Asp Thr Thr Gly Ile Thr Glu Thr Glu Phe Asn Ile Gly Ser  
1 5 10 15

Ser Lys Phe Lys Val Leu Asp Ala Gly Gly Gln Arg Ser Glu Arg Lys  
20 25 30

Lys Trp Ile His Cys Phe Glu Gly Ile Thr Ala Val Leu Phe Val Leu  
35 40 45

Ala Met Ser Glu Tyr Asp Gln Met Leu Phe Glu Asp Glu Arg  
50 55 60

<210> 112  
<211> 62  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 112  
Arg Val Leu Thr Ser Gly Ile Phe Glu Thr Lys Phe Gln Asn Asp Lys  
1 5 10 15

Val Asn Phe His Met Phe Asp Val Gly Gly Gln Arg Asp Glu Arg Lys  
20 25 30

Lys Trp Ile Gln Cys Phe Asn Asp Val Thr Ala Ile Ile Phe Val Val  
35 40 45

Ala Ser Ser Ser Tyr Asn Met Val Ile Arg Glu Asp Asn Gln  
 50                    55                    60

<210> 113  
<211> 62  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 113  
Arg Val Lys Thr Thr Gly Ile Val Glu Thr His Phe Thr Phe Lys Asp  
1                    5                    10                    15

Leu His Phe Lys Met Phe Asp Val Gly Gly Gln Arg Ser Glu Arg Lys  
20                    25                    30

Lys Trp Ile His Cys Phe Glu Gly Val Thr Ala Ile Ile Phe Cys Val  
35                    40                    45

Ala Leu Ser Ala Tyr Asp Leu Val Leu Ala Asp Glu Glu Met  
50                    55                    60

<210> 114  
<211> 62  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 114  
Arg Val Lys Thr Thr Gly Ile Val Glu Thr His Phe Thr Phe Lys Asp  
1                    5                    10                    15

Leu Tyr Phe Lys Met Phe Asp Val Gly Gly Gln Arg Ser Glu Arg Lys  
20                    25                    30

Lys Trp Ile His Cys Phe Glu Gly Val Thr Ala Ile Ile Phe Cys Val  
35                    40                    45

Ala Leu Ser Asp Tyr Asp Leu Val Leu Ala Glu Asp Glu Glu  
50                    55                    60

<210> 115  
<211> 62  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 115  
Arg Val Lys Thr Thr Gly Ile Val Glu Thr His Phe Thr Phe Lys Asn  
1                    5                    10                    15

Leu His Phe Arg Leu Phe Asp Val Gly Gly Gln Arg Ser Glu Arg Lys  
 20 25 30

Lys Trp Ile His Cys Phe Glu Asp Val Thr Ala Ile Ile Phe Cys Asn  
 35 40 45

Ala Leu Ser Gly Tyr Asp Gln Val Leu His Glu Asp Glu Thr  
 50 55 60

<210> 116

<211> 62

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 116

Arg Val Pro Thr Thr Gly Ile Ile Glu Tyr Pro Phe Asp Leu Glu Asn  
 1 5 10 15

Ile Ile Phe Lys Met Val Asp Ala Gly Gly Gln Arg Ser Glu Arg Lys  
 20 25 30

Lys Trp Ile His Cys Phe Glu Asn Val Thr Ser Ile Met Phe Leu Val  
 35 40 45

Ala Leu Ser Glu Tyr Asp Gln Cys Leu Glu Glu Asn Asn Gln  
 50 55 60

<210> 117

<211> 62

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 117

Arg Met Pro Thr Thr Gly Ile Asn Glu Tyr Cys Phe Ser Val Gln Lys  
 1 5 10 15

Thr Asn Leu Lys Ile Val Asp Ala Gly Gly Gln Arg Ser Glu Arg Lys  
 20 25 30

Lys Trp Ile His Cys Phe Glu Asn Ile Ile Ala Leu Ile Tyr Leu Ala  
 35 40 45

Ser Leu Ser Glu Tyr Asp Gln Val Leu Val Glu Ser Asp Asn  
 50 55 60

<210> 118  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic peptide

<400> 118  
Asp Val Gly Gly Gln  
1 5

<210> 119  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic peptide

<400> 119  
Ser Ser Gly Ala Gly Gln Lys Arg  
1 5

<210> 120  
<211> 9  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 120  
Leu Leu Leu Leu Gly Ala Gly Glu Ser  
1 5

<210> 121  
<211> 9  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 121  
Leu Glu Lys Gln Arg Asp Lys Asn Glu  
1 5

<210> 122  
<211> 6  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> MOD\_RES  
<222> (2)..(2)  
<223> Any amino acid

<220>  
<221> MOD\_RES  
<222> (4)..(5)  
<223> Any amino acid

<400> 122  
Gly Xaa Gly Xaa Xaa Gly  
1 5

<210> 123  
<211> 10  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 123  
Leu Leu Leu Leu Gly Ala Gly Glu Ser Gly  
1 5 10

<210> 124  
<211> 6  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> MOD\_RES  
<222> (3)..(5)  
<223> Any amino acid

<400> 124  
Met Gly Xaa Xaa Xaa Ser  
1 5

<210> 125  
<211> 9  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 125  
Gly Ser Gly Glu Ser Gly Asp Ser Thr  
1 5

<210> 126  
<211> 8  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 126  
Gln Ala Arg Lys Leu Gly Ile Gln  
1 5

<210> 127  
<211> 9  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 127  
Leu Ile His Glu Asp Ile Ala Lys Ala  
1 5

<210> 128  
<211> 7  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 128  
tgaaaaca

7

<210> 129  
<211> 10  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 129  
Leu Leu Leu Leu Gly Ala Gly Glu Ser Gly  
1 5 10

<210> 130  
<211> 8  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 130  
Leu Leu Leu Leu Gly Ala Gly Glu  
1 5

<210> 131  
<211> 6  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 131  
gaggct

6

<210> 132  
<211> 4  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 132  
gaga

4

<210> 133  
<211> 11  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 133  
Tyr Ile Ile Lys Gly Val Phe Trp Asp Pro Ala  
1 5 10

<210> 134  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 134  
Glu Ala Glu Ala  
1

<210> 135  
<211> 37  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 135  
Arg Ile Lys Thr Thr Gly Ile Thr Glu Thr Glu Phe Asn Ile Gly Ser  
1 5 10 15

Ser Lys Phe Lys Val Leu Asp Ala Gly Gly Gln Arg Ser Glu Arg Lys  
20 25 30

Lys Trp Ile His Cys  
35